AMENDMENTS TO THE CLAIMS

Docket No.: 0365-0614PUS1

1. (Currently Amended) A method for limiting and for monitoring the use of a data communications connection subject to payment, between at least two IP clients in a packetswitched connection network (15), in through which -a mutual data communications connection is set (105 - 106) between the at least two clients, the at least two clients including a client to be billed, the method comprising: (11 - 12), through a connection network (15), setting a signalling connection between a connection-formation system in the connection network and at least the client to be billed, the signalling connection being separate routed differently (13) from the mutual data communications connection; is set (101 102) at least to the client to be billed, setting a traffic limiter (16), in the connection network for the mutual data communications connection based on at least one of the header-field properties, such as the network addresses and/or the port addresses, of the packets being transmitted; , is set (103) for the mutual data communications connection,monitoring the data communications connection are monitored (104) and billed for (108). -at least one-individually for a session which is actively being transmitted (109)-over the mutual data communications connection between the at least two clients, the data communications connection being monitored for data communications services being provided to the client to be billed; , and is individuated, and the monitored controlling the billing to be charged in a billing system session-specifically for the data communications connection based on the monitored data communications services; is controlled (110) and/or the monitored billing is defined session specifically in the billing system (14), characterized in that -receiving a message is received (107)-at the connection-formation system from the

signalling connection concerning the interruption or termination of the session being transmitted over the mutual data communications connection; and/or state data (304) is received from the billing system, over the message connection; concerning an absence in the billing system or a deficiency in the billing system of the payment required for providing the session being

Reply to Office Action of June 30, 2008

transmitted over the mutual data communications connection,

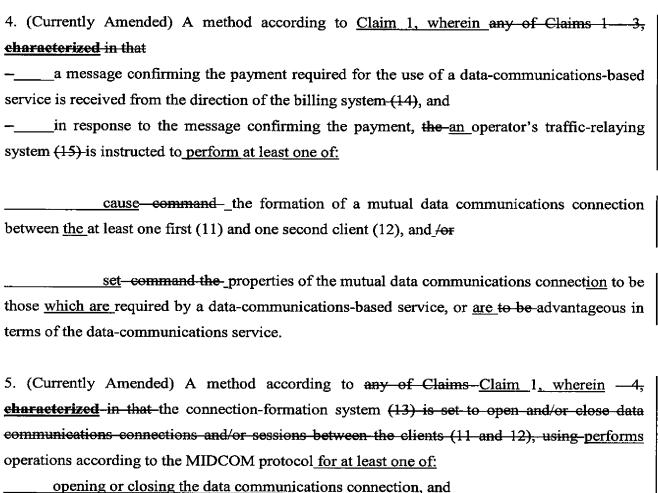
-in response to the message concerning the interruption or termination (107) of the session, and/or to the state data (304) received from the billing system, instructing the at least one-traffic limiter is instructed (212, 305) to break, interrupt, or close the session over the mutual data communications connection; and

Docket No.: 0365-0614PU\$1

—<u>setting</u> a two-way signalling link is set (302) between the connection-formation system (13) and the billing system_-through the a mediator (14).

3. (Currently Amended) A method according to either Claim 1-or 2, eharacterized in that-further comprising:

using the connection-formation system (13) is used to receive an initiation message for a data-communications-based service involving at least one first client (11) and at least one second client. (12) and to forward it the initial message to the billing system (14).



Docket No.: 0365-0614PU\$1

6. (Currently Amended) A method according to any of Claims Claim 1, wherein - 5, eharacterized in that the interface of the connection-formation system includes an interface (13) is set for a SIP server in the direction of the traffic limiter control system (15).

opening or closing the session between the at least two clients.

7. (Currently Amended) A method according to any of Claims Claim 1, wherein the -6, eharacterized in that at least two clients includes a one-client, which is addressed to the an address-search system being used, in set for the data communications connection.

Application No. 10/516,740 Amendment dated December 1, 2008 Reply to Office Action of June 30, 2008

8. (Currently Amended) A method according to any of Claims 1—Claim 7, eharacterized in that wherein a SIP system (13)-is used as the address-search system.

Docket No.: 0365-0614PUS1

9. (Currently Amended) A method according to <u>Claim 7</u>, <u>wherein any of Claims 1 - 8</u>, <u>eharaeterized in that</u>—the connection-formation system (13) is set to <u>form—establish</u> data communications connections to—<u>between</u> the <u>at least two clients</u>—using the address-search system.

10. (Currently Amended) A method according to any of Claims Claim 1, wherein -9, eharacterized in that the billing system (14) is set to initiate the provision of instructions to a provide initiations to instruct the traffic-relaying system of the connection network (15) to interrupt or terminate a session between the at least two clients (11 12).

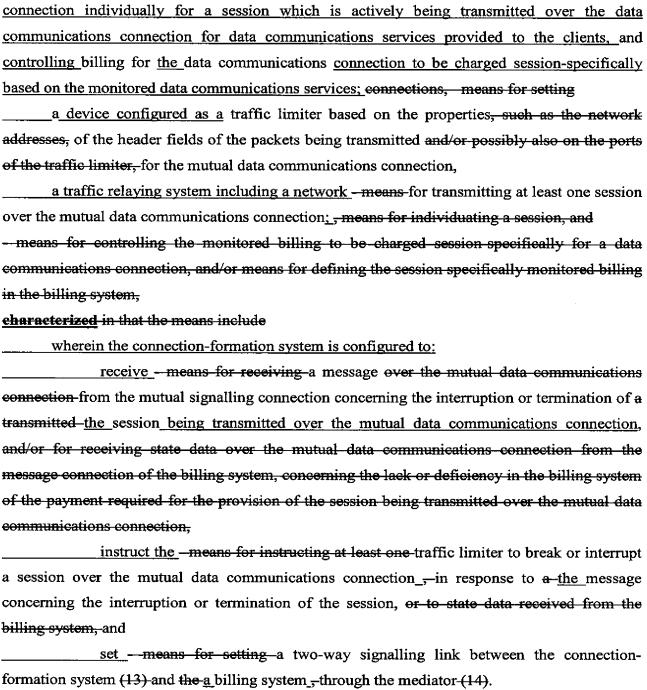
11. (Currently Amended) A method according to <u>Claim 24 wherein a any of Claims 1—10</u>, <u>eharacterized in that the traffic-relaying system of the connection network (15)</u> is instructed to interrupt or terminate <u>the at least one</u> session or data communications connection between the <u>at least two</u> clients (11—12), in response to the state <u>data indicating of the billing system (14)</u> <u>directed to the session or data communications connection, which indicates</u> an insufficient payment in the billing system (14)—for continuing the session or data communications connection.

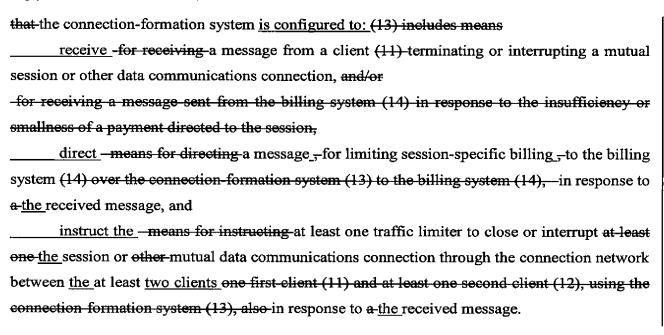
12. (Currently Amended) Means-A system for limiting the use of a data communications connection subject to payment between IP clients in a packet-switched connection network, comprising: which means include

<u>a device configured as a connection-formation system</u> <u>—means</u> for setting a mutual data communications connection between at least two clients, through the connection network, and —means-for setting a mutual signalling connection separate from, routed differently to the mutual data communications connection;

a device configured as a mediator - means for monitoring the data communications

Docket No.: 0365-0614PUS1





- 14. (Currently Amended) A system Means—according to either—Claim 12, wherein or 13, eharacterized in that they include means for receiving, over the connection-formation system is configured to receive (13), an initiation message for a data-communications-based service concerning the at least two clients, one first client (11) and one second client (12), and forward the initiation message for forwarding it to the billing system—(14).

Application No. 10/516,740

Amendment dated December 1, 2008

Reply to Office Action of June 30, 2008

terms of the data-communications-based service.

16. (Currently Amended) A system Means according to any of Claims Claim 12, wherein the connection-formation system uses ___15, characterized in that they include means for opening and/or closing data communications connections and/or sessions between the clients (11 and 12),

Docket No.: 0365-0614PUS1

by means of operations according to the MIDCOM protocol for at least one of:

opening or closing the data communications connection, and

opening or closing the session between the at least tow clients.

17. (Currently Amended) A system Means according to any of Claims Claim 12, wherein — 16, characterized in that they include means for setting the interface of the connection-formation system <u>includes an interface set for a SIP server (13)</u>, in the direction of the at least on traffic limiter-control system (15), for a SIP server.

18. (Currently Amended) A system Means according to any of Claims Claim 12, wherein the at least two clients includes - 17, characterized in that they include means for setting a client addressed to an address-search system-used by at least one client, to the data communications connection.

- 19. (Currently Amended) A system Means according to Claim any of Claims 12 18, wherein eharacterized in that the address-search system being used is a SIP system (13).
- 20. (Currently Amended) A system Means according to Claim 18, wherein any of Claims 12 -19, characterized in that they include means, using the address-search system is used ,-for setting the connection-formation system to form establish data communications connections to between the at least two clients.
- 21. (Currently Amended) A system Means according to any of Claims Claim 12, wherein the connection-formation system is configured to set - 20, characterized in that they include means

Reply to Office Action of June 30, 2008

for setting the billing system (14) to initiate the provision of instructions to provide stimuli to instruct the traffic-relaying system (15) to interrupt or terminate the a session between the at least two clients (11 - 12).

22. (Currently Amended) A system Means-according to Claim 26, wherein the connectionformation system is configured to instruct any of Claims 12 21, characterized in that they include means for instructing the traffic-relaying system (15) to interrupt or terminate the at least ene-session or data communication connection between the at least two clients (11 - 12), in response to a the state data indicating of the billing system (14) directed to the session or data communications connection, which indicates an insufficient payment in the billing system (14)

for continuing the session or data communications connection.

23. (Currently Amended) A computer program stored on a computer-readable storage medium, the program comprising instructions to be executed by one or more computers to perform the combination of steps recited in claim 1 or 24. software product for limiting the use of a data communications connection subject to payment between IP clients in a packet-switch connection network, characterized in that it includes means according to any of Claims 12-22, which are

computer-readable-software means.

24. (New) A method for limiting and monitoring the use of a data communications connection subject to payment between at least two IP clients in a packet-switched connection network through which a mutual data communications connection is set between the at least two clients,

the method comprising:

setting a signalling connection between a connection formation system in the connection network and at least the client to be billed, the signalling connection being separate from the mutual data communications connection;

setting a traffic limiter in the connection network for the mutual data communications connection based on at least one of the header-field properties of the packets being transmitted;

monitoring the data communications connection individually for a session which is

actively being transmitted over the mutual data communications connection between the at least two clients, the data communications connection being monitored for data communications services being provided to the client to be billed;

controlling the billing to be charged in a billing system session-specifically for the data communications connection based on the monitored data communications services;

receiving state data at the connection-formation system from the billing system over the message connection concerning an absence or a deficiency of a payment required in the billing system for providing the session being transmitted over the mutual data communications connection;

in response to the state data received from the billing system, instructing the traffic limiter to break, interrupt, or close the session over the mutual data communications connection; and

setting a two-way signalling link between the connection-formation system and the billing system through the mediator.

25. (New) A method according to Claim 24, wherein:

each session is monitored and billed for using the connection-formation system by responding to a message sent from the billing system concerning the lack or deficiency of a payment allocated to the session,

in response to the message, the connection-formation system is used to:

direct a message to the billing system to limit the session-specific billing, and instruct the traffic limiter to close or interrupt the session or the mutual data communication connection through the connection network between the at least two clients.

26. (New) A system for limiting the use of a data communications connection subject to payment between IP clients in a packet-switched connection network, comprising:

a device configured as a connection-formation system for setting a mutual data communications connection between at least two clients through the connection network, and for setting a mutual signalling connection separate from the mutual data communications connection;

a device configured as a mediator for monitoring the data communications connection individually for a session which is actively being transmitted over the data communications

connection for data communications services provided to the clients, and controlling billing for

the data communications connection to be charged session-specifically based on the monitored

data communications services;

a device configured as a traffic limiter based on the properties of the header fields of the

packets being transmitted for the mutual data communications connection; and

a traffic relaying system including a network for transmitting at least one session over the

mutual data communications connection,

wherein the connection-formation system is configured to:

receive state data from the billing system via a message connection concerning a

lack or deficiency of payment required by the billing system for the provision of the session

being transmitted over the mutual data communications connection,

instruct the traffic limiter to break or interrupt a session over the mutual data

communications connection in response to the state data received from the billing system, and

set a two-way signalling link between the connection-formation system and a

billing system through the mediator.

27. (New) A system according to Claim 26, wherein the connection-formation system is

configured to:

receive a message sent from the billing system in response to the insufficiency or

smallness of a payment directed to the session,

direct a message for limiting session-specific billing to the billing system in response to

the received message, and

instruct the traffic limiter to close or interrupt the session or mutual data communications

connection through the connection network between the at least two clients in response to the

received message.

Birch, Stewart, Kolasch & Birch, LLP

13